

The UK Agri-Tech Centre

Facilitating the Development and Adoption of Innovative Solutions on Farm

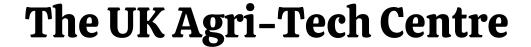
Dr Andy Evans – Innovation Lead

ARIOB – Academic Advisory Panel agritechcentre.com









Who we are

- The merger of three UK agri-tech centres — Agri-EPI, CIEL, and CHAP officially created the UK Agri-Tech Centre in April 2024
- An independent business, supported by Innovate UK
- Enable businesses to develop their innovations to be technically and commercially robust, and work with farmers and growers to increase adoption of emerging agri-tech
- Create an enabling innovation ecosystem for agri-tech sector growth in the UK by addressing critical challenges that prevent new innovations getting to



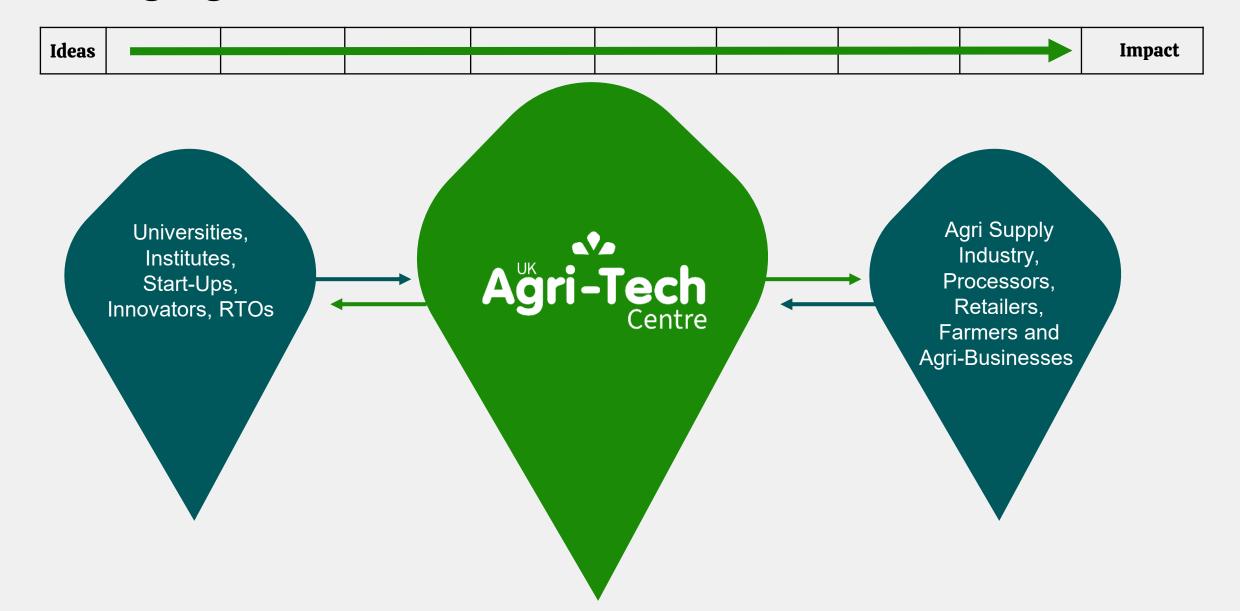
Mission

To accelerate the development and deployment of innovation across agritech

Vision

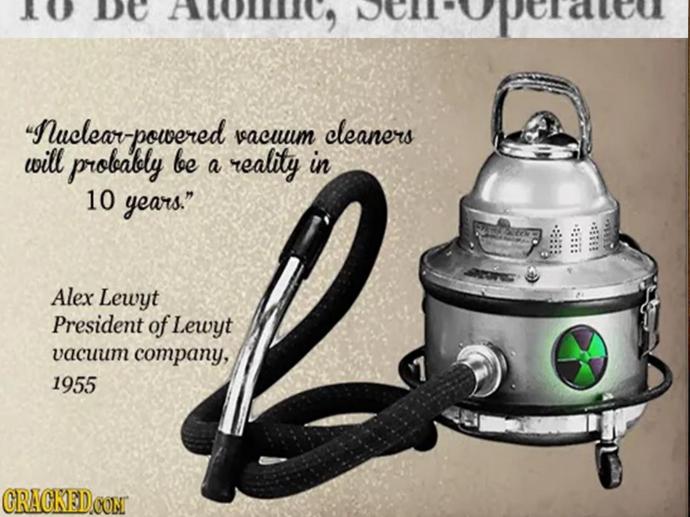
An agricultural sector that is among the world's most innovative, dynamic, resilient and sustainable through the development and application of agri-tech

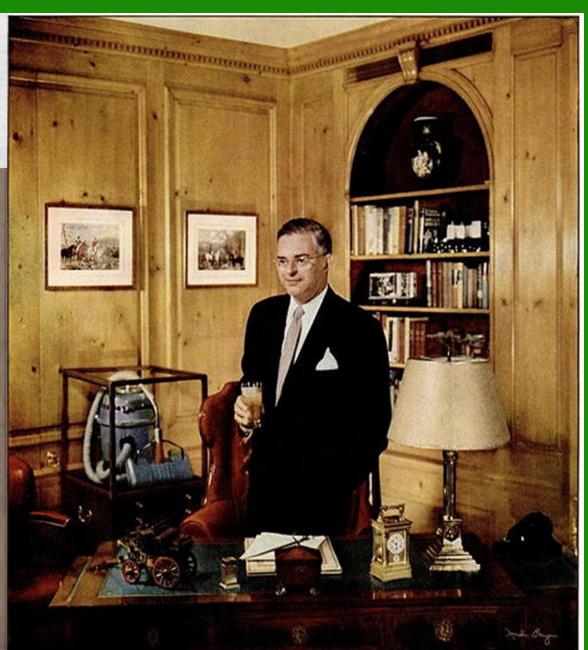
Bridging the Gap



We might have passed on this innovation.....

Vacuum Cleaner of Future To Be Atomic, Self-Operated





What we do

- Test, trial and demonstrate: increase the successful development and adoption rate of emerging agri-tech by farmers to improve agricultural productivity, profitability and sustainability
- Sector growth: create an enabling innovation ecosystem for agri-tech sector growth in the UK by addressing critical challenges that prevent new innovations getting to market
- Agri-tech business support: enable UK agri-tech SMEs to access the skills, expertise and capabilities needed to successfully deliver solutions through to commercialisation



The UK Agri-Tech Centre

Providing expertise and world-class facilities to businesses, driving agri-tech development and growth

Unique in agri-tech

Expertise: 150 in-house agri-tech experts

Ecosystem: collaborating with over 470 businesses from SMEs to global corporations

Experience: working with industry to deliver over £85m of agri-innovation projects

Capabilities and resources

43

innovation facilities

22

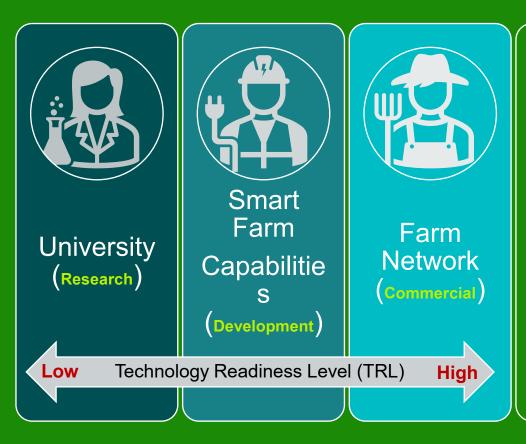
strong farm network

Geographic & sector coverage





UK Agri-Tech Centre





Farm Community (Community)







Scottish Farm Network





Gregor Bruce, Logierieve, Ellon



Angus Soft Fruits, East Seaton, Arbroath



John Seed, Woodend, Duns



John Weir, Lacesston, Cupar



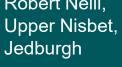
Robert Neill, Jedburgh

Agri-Tech

Centres



Brian Weatherup Jnr, Parkend, Cowdenbeath







Niall Jeffrey, Bielgrange, Dunbar



CASE STUDY: MACKIE'S



- Reduced disease incidence 35%
- Decreased antibiotic use 20%
- 2 years' treatment records digitalised



David Smurthwaite Dairy Manager Mackie's of Scotland

I was originally cynical about the use of the data, but now we look at the app 2 or 3 times a day. Our antibiotic usage has gone down and the calves turn around much quicker.



















Hoofcount Case study

Background

Dairy farming faces a significant challenge in managing hoof health, particularly with the prevalence of lameness caused by digital dermatitis. This condition affects over 90% of dairy herds in the UK, leading to substantial economic losses. While preventative measures like regular footbathing have been in place, early detection and timely treatment of lameness remain critical needs in the industry.

Hoofcount, a leading UK provider of automatic footbaths, recognised the need for a more proactive approach to hoof health. Their existing systems were already making strides in reducing lameness, but the company identified an opportunity to develop a device that could detect issues at an even earlier stage, ensuring prompt and effective treatment.

Collaboration and Support

The development of Pedivue was a collaborative effort that brought together expertise from various sectors. Hoofcount worked closely with the UK Agri-Tech Centre at the South West Dairy Development Centre and the Centre for Machine Vision (CMV) at the University of the West of England, Bristol. This partnership was crucial in developing and refining the system and ensuring accurate and reliable hoof health assessments.

Hoofcount's Anthony Marsh explains: "Utilising the dairy centre and the resources at the UK Agri-Tech Centre has provided an excellent controlled centre for further development of the device with validated data capture.

"The UK Agri-Tech Centre guided us through the initial application and have supported us throughout the project keeping timings and communication all on target."













Fotenix

Case study

Background

Fotenix is an agri-tech innovator based in Manchester, UK, specialising in multispectral imaging and Al-driven solutions for crop monitoring.

Founded as a University of Manchester spinout, Fotenix's technology supports growers with precision tools to reduce their reliance on chemical inputs, such as fertilisers and pesticides, contributing to improved sustainability. By making data-driven decisions, farmers can also improve water and energy efficiency, critical for maintaining profitability.

"Farmers are at the core of everything we do. We understand the immense pressure they face to deliver high-quality produce while dealing with rising costs and environmental challenges." - Charles Veys, CEO of Fotenix

Collaboration and support

Fotenix has collaborated with the UK Agri-Tech Centre and partners across many active and complete projects:

- SprayBot Three-year feasibility study funded by Innovate UK that investigated combining early disease detection techniques such as imaging and spore sensors with robotic machinery.
- SLIMERS Strategies Leading to Improved Management and Enhanced Resilience Against Slugs (SLIMERS) is research project funded by Defra's Farming Innovation Programme and delivered by Innovate UK.
- ACDC The Advanced Crop Dynamic Control project aims to develop highly energy efficient & sustainable indoor farming systems through image-based analysis, AI & software.





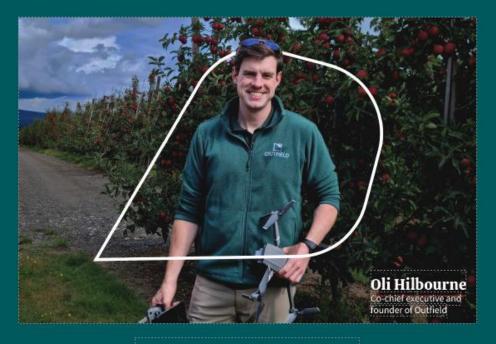












Outfield Technologies Case study

Outfield background and story

Outfield is a Cambridge-based agri-tech startup helping fruit growers to become more efficient, profitable and sustainable. The Outfield system is designed to provide farmers with accurate and reliable fruit counts, blossom mapping and yield estimates. This is critical for making informed decisions around resource management, harvest, storage and sales. The system uses a combination of drone technology and cutting-edge machine learning to collect and analyse data that can help growers see how their orchards or vineyards are performing. The Outfield team has been working with apple growers around the world to develop their system since 2019, and have now delivered over 1000 reports to growers to help optimise blossom thinning, precision fertiliser applications and harvest logistics.





Outfield is collaborating with UK Agri-Tech Centre on the £1 million Innovate UK supported VISTA project. This is a project to create a digital mapping system for vineyard and fruit growers around the world. The VISTA map will capture the locations of plants and rows, mapping out field infrastructure such as posts and irrigation systems. VISTA will create a standard format for easy data sharing and integration, allowing growers to combine different precision farming systems together to improve production outputs. Digital mapping empowers informed decision making in horticulture and VISTA will create a standard for digital maps of commercial vineyards and orchards in the UK and across the globe.











Agribot

Case study

Background

Grass growth is crucial for pasture-based dairy farming, affecting herd nutrition, milk production, and farm efficiency. Traditional methods, like manual plate measurements or visual checks, are time-consuming and inconsistent. However, satellite data offers near real-time, objective insights into grass biomass, growth rates, and stress indicators, enabling farmers to optimise grazing rotations and avoid overgrazing or underusing feed.

By using two- to three-week grass growth forecasts, dairy farmers can adjust grazing strategies proactively, supplement feed when needed, and ensure cows have high-quality pasture. Combining satellite data with atmospheric forecasts helps farmers anticipate feed surpluses or shortages, balancing stocking rates and feed budgets to reduce reliance on costly supplementary feed.

Additionally, satellite monitoring improves pasture management, removing unnecessary use of synthetic fertilisers and pesticides. By optimising grazing and ensuring grass stays in its productive phase, nitrogen use can be reduced without sacrificing yield. Healthier pastures also enhance soil carbon storage and water retention, promoting long-term farm sustainability. Ultimately, satellite data enables farmers to increase efficiency, maximise profit, and boost environmental resilience.





"Our journey in grass growth monitoring and forecasting has been dramatically accelerated by the incredible support and collaboration we've received from key industry and research partners. The UK Agri-Tech Centre has been instrumental in our progress, working alongside us in a partnership with Innovate UK to bring cutting-edge solutions to pasture-based dairy farming.

Through this collaboration, we engaged directly with farmers as part of the initial project and later as adopters after attending our dissemination events. Their insights and on-the-ground feedback have been invaluable in refining and validating our technology.









Who should you work with to deliver Innovation and break down barriers to Adoption?





Ventures, SMEs



Academic Science and Research



Investors & Funding Agencies





International



Associations, Societies & Trade bodies



Agri-Supply Industry



Processors & Retailers



Farmers and Agri-Business



Catapult Network

Delivering Innovation and Impact





52 companies

incubated at/using our hubs



152 businesses using

VKATC capabilities, Farm
Network used in 31
projects



85 SMEs engaged through R&D and

commercial projects



~£5 Million in CR&D matched funding for projects with UKATC



302 businesses

engaged through **UKATC** activities



~£12 Million in private

funding secured by businesses working with UKATC

Prioritising projects that are closer to market

Dedicated to key industry challenges

Focusing on novel and transformational agri-tech

Assessing product potential and market feasibility

Thank you

Contact the UK Agri-Tech Centre at

andy.evans@ukagritechcentre.com



